

What is claimed is:

1. An electronic apparatus having a position detecting apparatus, the electronic apparatus comprising:

a movable object member having various functions;

an actuator having a moving member moved to drive the movable object member;

a member to be read for providing information with regard to a state of moving the movable object member; and

a guide member for fixing the movable object member, the actuator and the member to be read.

2. The electronic apparatus having a position detecting apparatus according to Claim 1:

wherein a sectional shape of the guide member is noncircular.

3. The electronic apparatus having a position detecting apparatus according to Claim 1:

wherein the guide member is formed integrally with at least one of the moving member, the member to be read and the movable object member.

4. The electronic apparatus having a position detecting apparatus according to Claim 1:

wherein at least two of the movable object member, the moving member and the member to be read are integrally formed.

5. The electronic apparatus having a position detecting apparatus according to Claim 1:

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wherein the guide member is fixed to a position different from a center of rotation of rotating the movable object member.

6. The electronic apparatus having a position detecting apparatus according to Claim 1:  
wherein the actuator is an ultrasonic motor.

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